



Water-Data Report 2008

403835112171801 MILL SPRING NEAR ERDA, UT

Great Salt Lake Basin
Rush-Tooele Valleys Subbasin

LOCATION.--Lat 40°38'35", long 112°17'18" referenced to North American Datum of 1927, in SW ¼ NE ¼ SW ¼ sec.15, T.2 S., R.4 W., Tooele County, UT, Hydrologic Unit 16020304.

DRAINAGE AREA.--Not determined.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 2000 to current year.

REVISED RECORDS.--WDR UT-05-1: 2003,2004.

GAGE.--Water-stage recorder only until May 8, 2007. Water-stage recorder and acoustic velocity meter since May 8, 2007. Elevation of gage is 4,300 ft above NGVD of 1929, from topographic map.

REMARKS.--Gage height record fair prior to June 18, 2008 when no RP was established. Gage height record good after the establishment of the RP. Velocity record good except from March through May 18, 2008 when aquatic growth was present in the channel affecting velocity data. During this time velocity data is fair. Overall, the discharge record for the 2008 WY is fair. Estimated daily discharges are poor.

Multiple points of diversion for irrigation upstream of gage. At times there is no flow or nearly no flow at gage due to diversions.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 16.0 ft³/s, Jul 17, 2002; minimum daily discharge, 0.35 ft³/s, Sep 8, 2008.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13.0 ft³/s, Oct 19; minimum daily discharge, 0.35 ft³/s, Sep 8.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[*e*, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	e5.2	4.5	5.7	6.6	6.2	6.7	6.3	5.7	1.8	4.7	e6.0	4.0
2	e5.2	4.2	3.5	6.5	6.1	6.6	6.3	5.9	4.0	5.0	5.2	4.9
3	e5.2	4.4	2.6	6.5	6.0	6.5	6.1	6.0	5.4	5.0	1.8	4.8
4	4.4	4.6	6.2	6.9	7.2	6.6	6.0	6.0	5.8	5.0	4.0	4.9
5	4.5	5.1	7.0	6.6	7.2	6.6	5.9	6.2	7.2	4.8	4.9	4.9
6	4.8	4.9	6.6	6.7	7.1	6.5	5.8	1.8	6.2	1.4	5.0	4.9
7	e1.2	4.8	6.8	4.6	7.0	6.5	6.3	4.7	6.0	3.5	4.9	1.4
8	2.5	5.4	7.0	6.3	7.0	6.5	6.3	6.2	2.2	4.4	4.9	0.35
9	4.6	5.6	6.5	6.9	7.0	6.5	6.1	6.2	3.6	e6.3	4.8	0.97
10	4.9	5.3	4.8	6.9	7.0	6.3	6.1	6.5	4.7	e6.2	1.4	3.7
11	4.8	5.8	6.8	6.7	6.8	6.4	5.9	6.3	5.2	e6.1	3.6	4.5
12	5.2	5.4	6.8	6.6	6.7	6.3	6.0	6.5	5.5	e6.1	4.6	4.7
13	5.9	4.0	6.8	6.6	6.7	6.5	6.1	2.0	5.4	e1.7	4.7	4.7
14	e1.5	5.6	7.1	4.7	6.6	6.8	6.2	4.9	5.0	e4.5	4.8	1.3
15	2.7	5.5	7.0	6.6	6.2	6.5	2.6	6.6	1.1	e5.5	4.9	2.9
16	5.3	5.7	7.0	6.6	6.3	6.4	3.7	6.5	4.7	e5.8	4.9	4.4
17	5.5	5.9	4.8	6.6	6.3	6.3	5.7	6.5	6.0	e5.7	1.7	4.7
18	3.1	6.1	6.1	6.5	6.5	6.3	5.9	2.8	5.9	e5.8	3.2	4.9
19	e0.80	4.5	6.2	6.4	6.3	6.4	6.0	6.2	5.8	e5.8	4.6	4.8
20	e3.0	5.9	6.1	6.2	6.4	6.5	5.7	6.1	5.2	e1.6	4.9	4.6
21	e5.6	5.9	5.9	5.3	6.5	6.3	6.0	6.1	5.3	e4.6	5.0	1.2
22	e5.8	5.3	5.9	3.6	6.5	6.2	2.7	6.4	1.3	e5.3	5.0	6.5
23	5.8	5.2	6.0	6.1	6.5	6.2	4.8	5.9	3.9	e5.6	5.1	6.5
24	5.8	4.9	4.4	7.0	6.4	6.2	6.6	5.5	5.0	e5.6	1.6	5.3
25	5.6	5.2	5.9	6.8	6.4	6.1	6.3	1.8	4.7	e5.5	3.5	5.1
26	5.5	3.7	5.8	6.9	6.5	6.2	6.3	4.1	4.4	e5.6	4.7	4.9
27	5.8	5.1	5.9	6.9	6.5	6.3	6.4	5.4	4.3	e1.7	4.8	5.0
28	5.9	4.7	5.8	4.5	6.6	6.3	6.3	5.5	4.3	e5.3	4.9	1.3
29	5.7	4.9	5.8	6.2	6.6	6.3	2.1	5.4	1.1	e5.4	5.7	3.3
30	4.3	5.5	5.8	6.3	---	6.3	4.3	5.5	3.3	e5.7	5.6	4.9
31	4.6	---	4.5	6.1	---	6.3	---	5.5	---	e5.9	1.6	---
Total	140.70	153.6	183.1	193.7	191.1	198.4	166.8	166.7	134.3	151.1	132.3	120.32
Mean	4.54	5.12	5.91	6.25	6.59	6.40	5.56	5.38	4.48	4.87	4.27	4.01
Max	5.9	6.1	7.1	7.0	7.2	6.8	6.6	6.6	7.2	6.3	6.0	6.5
Min	0.80	3.7	2.6	3.6	6.0	6.1	2.1	1.8	1.1	1.4	1.4	0.35
Ac-ft	279	305	363	384	379	394	331	331	266	300	262	239

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000-2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	6.22	6.82	7.37	8.11	7.95	8.33	7.34	7.24	7.24	6.50	5.50	5.97
Max	8.75	9.05	9.42	12.8	9.75	12.1	10.1	9.61	12.9	11.3	7.20	8.37
(WY)	(2001)	(2003)	(2002)	(2002)	(2002)	(2002)	(2002)	(2001)	(2002)	(2002)	(2001)	(2000)
Min	4.54	4.63	5.91	6.25	6.59	6.40	5.56	4.47	4.48	3.43	3.95	3.94
(WY)	(2008)	(2006)	(2008)	(2008)	(2008)	(2008)	(2008)	(2007)	(2008)	(2003)	(2007)	(2007)

SUMMARY STATISTICS

	Calendar Year 2007	Water Year 2008	Water Years 2000-2008	
Annual total	1,992.70	1,932.12		
Annual mean	5.46	5.28	6.99	
Highest annual mean			9.65	2002
Lowest annual mean			5.28	2008
Highest daily mean	8.6	Feb 25	7.2	Feb 4
Lowest daily mean	0.80	Oct 19	0.35	Sep 8
Annual seven-day minimum	3.1	Jul 16	2.9	Sep 8
Annual runoff (ac-ft)	3,950		3,830	5,060
10 percent exceeds		7.6	6.6	9.6
50 percent exceeds		5.6	5.7	7.0
90 percent exceeds		2.3	3.2	4.4

